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Module 5

Milestone Four

Enhancement Three: Databases

Narrative

The name of this artifact is Travlr Getaways. This project uses MongoDB, Express, Angular, and Node.js, also known as a MEAN stack, to render a single-page application. This program was created April 2024 in my CS 465 Full stack Development class.

This artifact is a great addition to my ePortfolio because it showcases my understanding of NoSQL databases, database schemas, and RESTful APIs. Specific components of the artifact that showcase my skills is creating the structure for the RESTful API, creating a Mongoose schema and database access code, and using Postman to test the URL string for the call to the API endpoint. The artifact was improved by creating the necessary structure to allow for API calls to the server. The previous structure uses static and html calls to the server. Using a RESTful API builds a more dynamic single page website that can interact with MongoDB.

Course Outcome:

* Develop a security mindset that anticipates adversarial exploits in software architecture and designs to expose potential vulnerabilities, mitigate design flaws, and ensure privacy and enhanced security of data and resources.
* I have met this course outcome by building a RESTful API. RESTful APIs provide control over access to resources, allowing developers to implement authentication and authorization mechanisms to ensure that only authorized users or systems can access specific endpoints and perform certain actions. APIs also provide a controlled interface to the underlying application or service, reducing the attack surface compared to exposing the entire application to the internet. This can help mitigate certain types of attacks, such as SQL injection or cross-site scripting.

I faced many challenges when changing the structure from a static HTML structure to an API structure. The most challenging file was the travel.hbs file. I failed to realize that I must set the HREF to match the endpoint. I was testing with “/travlr” which would result in a 404 error. I had to change this to “/api/trips” to render the correct page.